

What is claimed is:

1. (Currently amended) A method of routing a wireless signal between two points, said method comprising the steps of:

transmitting a wireless signal from an originating transmitter;

receiving said wireless signal at a first set of repeating transceivers;

in each said repeating transceiver, delaying said wireless signal by at least one predetermined delay and re-transmitting said wireless signal;

such pre-determined delays in such transceivers being calculated to cause a desired alignment in time of arrival of such re-transmitted wireless signals at a destination receiver; and

receiving said re-transmitted wireless signals at said destination receiver.

2. (Original) The method of claim 1, wherein the signal received at each said repeating transceiver is mixed to an intermediate frequency before said re-transmitting.

3. (Original) The method of claim 1, wherein the signal received at each said repeating transceiver is digitized before said re-transmitting.

4. (Original) The method of claim 1, wherein the signal received at each said repeating transceiver is processed through an FIR filter before said re-transmitting.

5. (Original) The method of claim 1, wherein the signal received at each said repeating transceiver is converted to an analog signal before said re-transmitting.

6. (Original) The method of claim 1, wherein the signal received at each said repeating transceiver is up-shifted in frequency before said re-transmitting.

7. (Original) The method of claim 1, wherein said predetermined delay is programmable.

8-14. (Withdrawn)

15. (Currently amended) A transceiver for use in a system for dynamically routing wireless signals, said transceiver comprising:

means for receiving a wireless signal;

means for modulating said wireless signal, said modulating means coupled to said receiving means;

means for digitizing said wireless signal, said digitizing means coupled to said modulating means;

means for delaying transmission of said wireless signal by a dynamically adjustable delay, said delaying means coupled to said digitizing means;

means for amplifying said wireless signal, said amplifying means coupled to said delaying means; and

means for transmitting said wireless signal, said transmitting means coupled to said amplifying means.

16. (Original) A method of routing a wireless signal between two points, said method comprising the steps of:

transmitting a wireless signal as a plurality of wireless signals;

receiving said plurality of wireless signals at a repeating transceiver as a received plurality of wireless signals;

in said repeating transceiver, delaying each of said plurality of wireless signals by a separately predetermined delay to produce a set of delayed wireless signals;

combining said delayed wireless signals into a reconstituted wireless signal; and

re-transmitting said reconstituted wireless signal.

17. (Original) The method of claim 16, wherein each of said received plurality of wireless signals is mixed to an intermediate frequency before being delayed by said separately predetermined delay.

18. (Original) The method of claim 16, wherein each wireless signal received at each said repeating transceiver is digitized before said re-transmitting.

19. (Original) The method of claim 16, wherein each wireless signal received at each said repeating transceiver is processed through an FIR filter before said re-transmitting.

20. (Original) The method of claim 16, wherein each wireless signal received at each said repeating transceiver is converted to an analog signal before said re-transmitting.

21. (Original) The method of claim 16, wherein said reconstituted wireless signal at each said repeating transceiver is up-shifted in frequency before said re-transmitting.

22. (Original) The method of claim 16, wherein each of said separately predetermined delays is programmable.